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TITLE: Conductive and exothermic fluid material.

PUBN-DATE: February 3, 1993

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ABSTRACT:

The conductive and exothermic fluid material contains a powdery material such as particles of carbon in the form of scales, spherical metal particles, a metal oxide and/or a metal salt, and a binder material such as a synthetic resin varnish or a gluey material. The ratio of the powdery material to the binder material is in the range of from approximately 93 to 7 to approximately 55 to 45. The carbon particles in the form of scales have each a long diameter of 300 microns or shorter and a short diameter of 200 microns or shorter. The spherical metal particles and the metal oxide have each a particle size of 300 microns or shorter.

The conductive and exothermic fluid material has a small electrical resistance and it can produce high temperatures with a small magnitude of electric currents. 